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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/068,295	02/05/2002	Oscar R. Mitchell	LYRN004US0	9657

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EXAMINER
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TRUONG, LECHI

ART UNIT	PAPER NUMBER
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2194

DATE MAILED: 06/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/068,295

**Applicant(s)**

MITCHELL ET AL.

**Examiner**

LeChi Truong

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 20 March 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.


### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

  
WILLIAM THOMSON  
SUPERVISORY PATENT EXAMINER

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

1. Claims 1-22 are presented for the examination.

#### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-6, 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rosenberg et al (US. Patent 6,560,450 B1) in view of Bector et al (US. Patent 6,687,732 B1).

**As to claim 1**, Rosenberg teaches the invention substantially as claimed including: a message (the packet, col 3, ln 7-9/ ln 23-25), a selected application (terminal within a said cell, col 2, ln 65-67 to col 3, ln 1-3/ another satellite, col 3, ln 14-17/ln 27-31/ ln 44-47/ destination sector, col 3, ln 59-62), format (format, col 10, ln 7-10), ascertaining whether the message is in a selected application format (col 3, ln 1-3/ ln 27-31/ ln 58-61), a next location (another system node, col 3, ln 59-62), if the message is not in the selected application format: routing the message to a next location( col 3, ln 13-17/ ln 45-48/ ln 58-62), if the message is in the selected application routing the message to a selected application processor( col 3, ln 1-3/ ln 10-16/ ln 29-32/col 10, ln 7-10), processing the message by the selected application processor( col 4, ln 48-

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52/col 5, ln 54-58/col 9, ln 59-63/ col 10, ln 27-31), routing the message to the next location( col 10, ln 35-36/ ln 45-60), receiving (arrives col 10, ln 46-47).

Rosenberg does not explicit teach processing the message by the selected application and routing the message to the next location. However, Bector teaches processing the message by the selected application and routing the message to the next location( packet information “network traffic” pass on their way through communication path 108 to one or more origin servers...the routing device may intercept certain classes of IP and TCP/Ip traffic, intended for one or many origin engine 116. The proxy processing engine 116 may then deliver responses to client request, or otherwise participate in the representation or transport of the client to origin server transaction, col 1, ln 45-50 and ln 55-63/ involves the obscuration of IP identity through proxies. As result of traffic interception and the presence of the proxy server 114, when the client’s forwarded request reaches the origin server 124, col 3, ln 39-45/ a determine is made as to whether matching address value is found in any of searches. If match found... packet is not sent to proxy engine 116, and sent transparently on its way to original server 124, col 9, ln 15-22/ if no match is found ... may involve proxy processing engine 116 sending and HTTP request message to original server 124, col 9, ln 25-30 and 65-67).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of Rosenberg and Bector because Bector’s processing the message by the selected application and routing the message to the next location would improve the efficiency of Rosenberg’s system by allowing the traffic packet to direct transfer to the server bypass the proxies server to reduce traffic load on the server.

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**As to claim 2**, Rosenberg teaches the message includes receiving a packet (col 4, ln 48-52).

**As to claim 3**, Rosenberg teaches the packet from a network (col 2, ln 37-40).

**As to claim 4**, Rosenberg teaches the packet from a switched network (col 1, ln 19-22/col 10, ln 32).

**As to claim 5**, Rosenberg teaches the internet (col 1, ln 29-31).

**As to claim 6**, Rosenberg teaches the message is encrypted (col 5, ln 54-57); processing the message by the selected application processor includes decrypting the message by the selected application processor (col 5, ln 54-58).

**As to claims 19, 20, 21**, they are apparatus claims of claims 1, 2 and 6; therefore, they are rejected for the same reasons as claims 1, 2 and 6 above.

3. Claims 7-12, 14, 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rosenberg et al (US. Patent 6,560,450 B1) in view of Bector et al (US. Patent 6,687,732 B1), as applied to claim 1 above, and further in view of Shanklin et al (US. Patent 6,578,147 b1).

**As to claim 7**, Rosenberg teaches a network (networks, col 2, ln 37-38), a fabric configured for communication (col 6, ln 52-56), a plurality of application service devices (satellite nodes 11, col 4, ln 48-52), unprocessed application specific message (packet, col 5, ln 52-58), the plurality of application service devices are configured to receive a plurality of unprocessed application specific message (col 4, ln 45-48), a particular application (the terminals at the edges of the satellite, col 5, ln 55-58), the application specific message (the packet contain

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a header which includes a destination address and a sequence filed. The payload in the packet contains the encoded user data, which can be from any kind of multimedia service and can include, for example, voice, video, or data, col 5, ln 52-58), each unprocessed application specific message is configured to be processed by a particular application (col 5, ln 53-58/ col 10, ln 7-10/ ln 27-31), each unprocessed applications specific message is processed with the particular application for with it is configured (col 4, ln 48-52/col 5, ln 54-58/col 9, ln 59-63/ col 10, ln 27-31), a plurality of processed application-specific messages is produced( col 5, ln 56-57), service devices are configured to sent the each processed application specific message to the fabric( col 10, ln 56-62).

Rosenberg and Bector do not explicitly teach process message in parallel. However, Shanklin teaches process message in parallel (the sensors operation in parallel and analyze packet to determine, col 2, ln 64-66).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of Rosenberg, Bector and Shanklin because Shanklin's process message in parallel would determines if there is an attempt to gain unauthorized access to the network.

**As to claim 8**, it is an apparatus claim of claim 2; therefore, it is rejected for the same reason as claim 2 above.

**As to claim 9**, Rosenberg teaches a hardware state machine (col 10, ln 9-11).

**As to claim 10**, Shanklin teaches the plurality of application service devices is included in a single integrated circuit (col 6, ln 65-67).

**As to claim 11**, Shanklin teaches each application service device comprises a simple programmable processor (col 10, ln 7-8).

**As to claim 12**, Shanklin teaches a plurality of interoperably configured distinct physical devices (col 9, ln 5-6).

**As to claim 14**, Shanklin teaches an unprocessed application stream (col 5, ln 56-61).

**As to claim 16**, Shanklin teaches an e-mail transfer (col 5, ln 3-5).

**As to claim 17**, Shanklin teaches a virtual private networking communication (col 1, ln 15-17).

**As to claim 18**, Shanklin teaches a TPC offload engine communication (col 5, ln 63-64).

4. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rosenberg et al (US. Patent 6,560,450 B1) in view of Bector et al (US. Patent 6,687,732 B1), as applied to claim 1 above, in view of Shanklin et al (US. Patent 6,578,147 b1) and further in view of TB (Troubleshooting).

**As to claim 13**, Rosenberg, Bector and Shanklin do not teach SSL/TLS. However, TB teaches SSL/TLS (SSL/TLS, page 2, ln 12).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of Rosenberg, Bector, Shanklin and TB because TB's SSL/TLS would improve performance of Rosenberg, Bector and Shanklin's systems by allowing the requirement for implementing an encryption acceleration hardware.

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5. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rosenberg et al (US. Patent 6,560,450 B1) in view Bector et al (US. Patent 6,687,732 B1), in view of Shanklin et al (US. Patent 6,578,147 b1) and further in view of TB (Troubleshooting).

**As to claim 15**, Rosenberg, Bector and Shanklin do not teach an SSL/TLS connection between a web browser and a web server. However, TB teaches an SSL/TLS connection between a web browser and a web server (page 4, ln 22-25).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of Rosenberg, Bector, Shanklin and TB because TB's an SSL/TLS connection between a web browser and a web server would improve performance required for implement encryption acceleration hardware.

6. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rosenberg et al (US. Patent 6,560,450 B1) in view of Bector et al (US. Patent 6,687,732 B1), as applied to claim 1 above, and further in view of Muthukumar et al (US. Patent 6,820,250 b2).

**As to claim 22**, Rosenberg teaches the invention substantially as claimed including: a message (the packet, col 3, ln 7-9/ ln 23-25), a selected application (terminal within a said cell, col 2, ln 65-67 to col 3, ln 1-3/ another satellite, col 3, ln 14-17/ln 27-31/ ln 44-47/ destination sector, col 3, ln 59-62), format (format, col 10, ln 7-10), ascertaining whether the message is in a selected application format (col 3, ln 1-3/ ln 27-31/ ln 58-61), a next location (another system node, col 3, ln 59-62), if the message is not in the selected application format: routing the



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message to a next location( col 3, ln 13-17/ ln 45-48/ ln 58-62), if the message is in the selected application routing the message to a selected application processor( col 3, ln 1-3/ ln 10-16/ ln 29-32/col 10, ln 7-10), processing the message by the selected application processor( col 4, ln 48-52/col 5, ln 54-58/col 9, ln 59-63/ col 10, ln 27-31), routing the message to the next location( col 10, ln 35-36/ ln 45-60), the routing of the message to the next location (col 10, ln 58-61).

Rosenberg and Bector do not teach the first/second iteration, a pipeline. However, Muthukumar teaches iteration, a pipeline (the first iteration, last iteration, the software pipeline, col 2, ln 64-67).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of Rosenberg, Bector and Muthukumar because Muthukumar's the first / second iteration, a pipeline would improve the performance of software pipelined loops.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is ( 571) 272 3767. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomson, William can be reached on (571) 272 3718. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

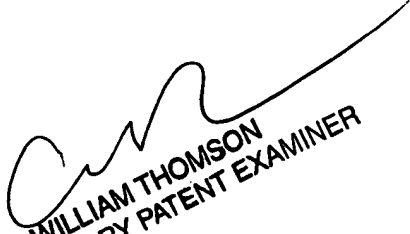
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIP. Status information for unpublished

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LeChi Truong

May 12, 2006



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SUPERVISORY PATENT EXAMINER